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PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : James C. Liao

Art Unit : Unknown

Serial No. : 10/048,186

Examiner : Unknown

Filed : January 25, 2002

Title : ENGINEERING OF METABOLIC CONTROL

Commissioner for Patents
Washington, D.C. 20231

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INFORMATION DISCLOSURE STATEMENT

Applicants disclose documents listed on the attached form PTO-1449. A copy of the disclosed documents has been submitted in the prior application USSN 09/626,612 and is therefore not enclosed herewith.

This statement is being filed before the receipt of a first office action. Please apply any charges to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 10-3-02

Y. Rocky Tsao
Y. Rocky Tsao
Reg. No. 34,053

Fish & Richardson P.C.
225 Franklin Street
Boston, Massachusetts 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

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I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

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Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
06497-013002Application No.
10,048,186**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)Applicant
James C. LiaoFiling Date
January 25, 2002Group Art Unit
1652

(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,429,939	07/04/95	Misawa et al.			
	AB	5,530,189	06/25/96	Ausich et al.			
	AC	5,744,341	04/28/98	Cunningham, Jr. et al.			
	AD	5,906,925	05/25/99	Liao			
	AE						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AF							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AG	Campos-Garcia et al., "The <i>pseudomonas aeruginosa rhlG</i> gene encodes an NADPH-dependent β-Ketoacyl which is specifically involved in rhamnolipid synthesis", <i>Journal of Bacteriology</i> 180(17):4442-4451 (1998)
	AH	Farmer et al., "Reprogramming the regulatory circuits of <i>Escherichia coli</i> ", Abstract 083., American Chemical Society National Meeting, Boston, MA August 23-27 (1998)
	AI	Farmer et al., "Reprogramming the regulatory circuits of <i>Escherichia coli</i> ", Abstract 094., American Chemical Society National Meeting, Anaheim, CA March 21-25 (1999)
	AJ	Feng et al., "Role of phosphorylated metabolic intermediates in the regulation of glutamine synthetase synthesis in <i>Escherichia coli</i> ", <i>Journal of Bacteriology</i> 174(19):6061-6070 (1992)
	AK	Haldimann et al., "Transcriptional regulation of the <i>Enterococcus faecium</i> BM4147 vancomycin resistance gene cluster by the VanS-VanR two-component regulatory system in <i>Escherichia coli</i> K-12", <i>Journal of Bacteriology</i> 179(18):5903-5913 (1997)
	AL	McCleary et al., "Acetyl phosphate a global signal in <i>Escherichia coli</i> ? ", <i>Journal of Bacteriology</i> 175(10):2793-2798 (1993)
	AM	McCleary et al., "Acetyl phosphate and the activation of two-component response regulators", <i>Journal of Biological Chemistry</i> 269(50):31567-31572 (1994)
	AN	Misawa et al., "Elucidation of the <i>Erwinia uredovora</i> carotenoid biosynthetic pathway by functional analysis of gene products expressed in <i>Escherichia coli</i> ", <i>Journal of Bacteriology</i> 172(12):6704-6712 (1990)
	AO	Ruther et al., "Production of zeaxanthin in <i>Escherichia coli</i> transformed with different carotenogenic plasmids", <i>Appl Microbiol Biotechnol</i> 48:162-167 (1997)
	AP	Schroeckh et al., "Formation of recombinant proteins in <i>Escherichia coli</i> under control of a nitrogen regulated promoter at low and high cell densities", <i>Journal of Biotechnology</i> 49:45-58 (1996)

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06497-013002	Application No. 10 048,186
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant James C. Liao	
		Filing Date January 25, 2002	Group Art Unit 1652

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	Scroekh et al., "The use of elements of the <i>E. coli</i> Ntr-system for the design of an optimized recombinant expression system for high cell density cultivations", <i>Journal of Biotechnology</i> 75:241-250 (1999)
	AR	Shin et al., "Modulation of flagellar expression in <i>Escherichia coli</i> by acetyl phosphate and the osmoregulator OmpR", <i>Journal of Bacteriology</i> 177(16):4696-4702 (1995)
	AS	Sprenger et al., "Identification of a thiamin-dependent synthase in <i>Escherichia coli</i> required for the formation of the 1-deoxy-D-xylulose 5-phosphate precursor to isoprenoids, thiamin, and pyridoxol", <i>Proc. Natl. Acad. Sci USA</i> 94:12857-12862 (1997)
	AT	Wang et al., "Engineered Isoprenoid pathway enhances Astaxanthin production in <i>Escherichia coli</i> ", <i>Biotechnology and Bioengineering</i> 62(2):235-241 (1999)

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Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	